

**Species/Strain:** RATS/Wistar Han

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]**

Nanoscale material (Fullerene-C60 1 micron)

**CAS Number:** 99685-96-8

**Date Report Requested:** 03/19/2010

Time Report Requested: 08:58:41

**First Dose M/F: 11/05/07 / 11/05/07**

**Lab: BNW**

F1\_RE

<b>C Number:</b>	C20701
<b>Lock Date:</b>	02/24/2009
<b>Cage Range:</b>	ALL
<b>Date Range:</b>	ALL
<b>Reasons For Removal:</b>	ALL
<b>Removal Date Range:</b>	ALL
<b>Treatment Groups:</b>	Include ALL
<b>Study Gender:</b>	Both
<b>TDMSE Version:</b>	2.2.0

Test Type: 90-DAY

Nanoscale material (Fullerene-C60 1 micron)

Time Report Requested: 08:58:41

Route: RESPIRATORY EXPOSURE NASAL

CAS Number: 99685-96-8

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Species/Strain: RATS/Wistar Han

Lab: BNW

Wistar Han RATS MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

**Disposition Summary**

Animals Initially In Study

10

10

10

10

Early Deaths

Survivors

Terminal Sacrifice

10

10

10

10

Animals Examined Microscopically

10

10

10

10

## ALIMENTARY SYSTEM

Liver

(10)

(1)

(0)

(10)

Inflammation, Chronic

1 [2.0]

Inflammation, Chronic Active

1 [1.0]

## CARDIOVASCULAR SYSTEM

Heart

(10)

(0)

(0)

(10)

Cardiomyopathy

1 [1.0]

1 [1.0]

## ENDOCRINE SYSTEM

None

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Preputial Gland

(10)

(0)

(0)

(10)

Inflammation, Chronic Active

3 [1.0]

5 [1.0]

Prostate

(10)

(0)

(0)

(10)

Inflammation, Chronic

1 [2.0]

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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## Wistar Han RATS MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

## HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

(7)

(5)

(6)

(8)

Pigmentation

1 [1.0]

3 [1.0]

7 [1.9]

Lymph Node, Mediastinal

(8)

(9)

(8)

(9)

Pigmentation

4 [1.0]

4 [1.0]

3 [1.7]

5 [1.6]

## INTEGUMENTARY SYSTEM

None

## MUSCULOSKELETAL SYSTEM

None

## NERVOUS SYSTEM

None

## RESPIRATORY SYSTEM

Lung

(10)

(10)

(10)

(10)

Congestion

1 [2.0]

Hemorrhage

1 [1.0]

1 [2.0]

3 [1.7]

Inflammation, Chronic Active

1 [1.0]

4 [1.0]

8 [1.8]

10 [2.0]

Pigmentation

10 [1.9]

10 [2.9]

Alveolus, Infiltration Cellular, Histiocyte

8 [2.0]

10 [2.9]

Nose

(10)

(0)

(0)

(10)

Goblet Cell, Hyperplasia

1 [1.0]

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## Wistar Han RATS MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

## SPECIAL SENSES SYSTEM

Eye	(10)	(0)	(0)	(10)
Inflammation, Chronic Active				1 [1.0]
Harderian Gland	(10)	(0)	(0)	(10)
Inflammation, Chronic Active	2 [1.0]			

## URINARY SYSTEM

Kidney	(10)	(0)	(0)	(10)
Infarct	1 [1.0]			
Nephropathy				2 [1.0]
Pelvis, Dilatation				1 [2.0]

\*\*\* END OF MALE \*\*\*

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Wistar Han RATS FEMALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

**Disposition Summary**

Animals Initially In Study

10

10

10

10

Early Deaths

Moribund Sacrifice

1

Survivors

Terminal Sacrifice

10

9

10

10

Animals Examined Microscopically

10

10

10

10

## ALIMENTARY SYSTEM

Liver

(10)

(1)

(0)

(10)

Hepatocyte, Pigmentation

1 [3.0]

Stomach, Forestomach

(10)

(1)

(0)

(10)

Hyperplasia, Squamous

1 [2.0]

## CARDIOVASCULAR SYSTEM

None

## ENDOCRINE SYSTEM

None

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland

(10)

(1)

(0)

(10)

Inflammation, Chronic Active

2 [1.0]

1 [1.0]

3 [1.0]

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## Wistar Han RATS FEMALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

## HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

(6)

(5)

(7)

(5)

Pigmentation

1 [1.0]

1 [1.0]

3 [1.3]

4 [1.5]

Lymph Node, Mediastinal

(8)

(10)

(8)

(9)

Pigmentation

3 [1.0]

9 [1.1]

7 [1.3]

7 [1.6]

Lymph Node, Mesenteric

(10)

(1)

(0)

(10)

Infiltration Cellular, Histiocyte

1 [2.0]

Thymus

(10)

(1)

(0)

(10)

Necrosis

1 [3.0]

## INTEGUMENTARY SYSTEM

None

## MUSCULOSKELETAL SYSTEM

Bone

(10)

(1)

(0)

(10)

Inflammation, Chronic Active

1 [4.0]

## NERVOUS SYSTEM

None

## RESPIRATORY SYSTEM

Lung

(10)

(10)

(10)

(10)

Inflammation, Chronic Active

1 [1.0]

10 [2.0]

Pigmentation

1 [1.0]

10 [1.1]

10 [2.9]

Alveolus, Infiltration Cellular, Histiocyte

1 [2.0]

10 [2.9]

## SPECIAL SENSES SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Wistar Han RATS FEMALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
None				
URINARY SYSTEM				
Kidney	(10)	(1)	(0)	(10)
Mineralization				1 [1.0]
Nephropathy	1 [1.0]			1 [1.0]
Pelvis, Dilatation				1 [2.0]

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion  
b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)